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SHORTER NOTES

Trichospira verticillata (L.) Blake, n. comb.—*Bidens verticillata* L.! Sp. Pl. 2: 833. 1753. *Trichospira menthoides* HBK. Nov. Gen. 4: 28 t. 312. 1820. *T. biaristata* Less. Linnaea 4: 343. 1829. *Rolandra septans* Willd. ex Less. l. c. as syn. *Trichospira Pulegium* Mart. ex DC. Prod. 5: 91. 1836. *T. Prieurei* DC. l. c. (1836).—This common composite of the American tropics, from Vera Cruz to Brazil and Peru (*Ruiz & Pavon*, hb. Brit. Mus.), has long been known as *Trichospira menthoides* HBK. It is identical with Linnaeus's *Bidens verticillata*, based on the *Bidens* no. 4 of the Hortus Cliffortianus (399 (1737)), which was founded on specimens collected in Vera Cruz by Houston and now in the British Museum, and the name of this monotype must consequently be changed to the one given above. The achenial characters relied on by Lessing and de Candolle in their separations seem, as long ago noted by Bentham in the Genera Plantarum, to be of no consequence; the intermediate awns at the apex of the achene, formed by the excurrent ribs of the achene face, varying from none, to short deltoid teeth, or quite distinct short-aristulae on the same plant.

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REVIEWS

Bailey and Gilbert's Plant-Breeding*

Volumes with this title written solely by the senior author have, during the past twenty years, passed through four editions with several reprintings. The last edition appeared in 1906 with the text in the form of six lectures. In the new edition this style of presentation is only slightly modified, making the book a popular treatise for the general reader and an elementary text for the student of plant-breeding.

One of the new chapters treats very excellently of the measurement of variation. The former treatments of mutations and of heredity have been expanded and treated in special chapters. As in the previous volumes, there is a glossary of terms, a bibliography, and, in addition, lists of books and periodicals treating

* By L. H. Bailey, new revised edition by Arthur W. Gilbert. The Rural Science Series. Published by the MacMillan Company, 1915. Price \$2.00 net.